



FIG. 1

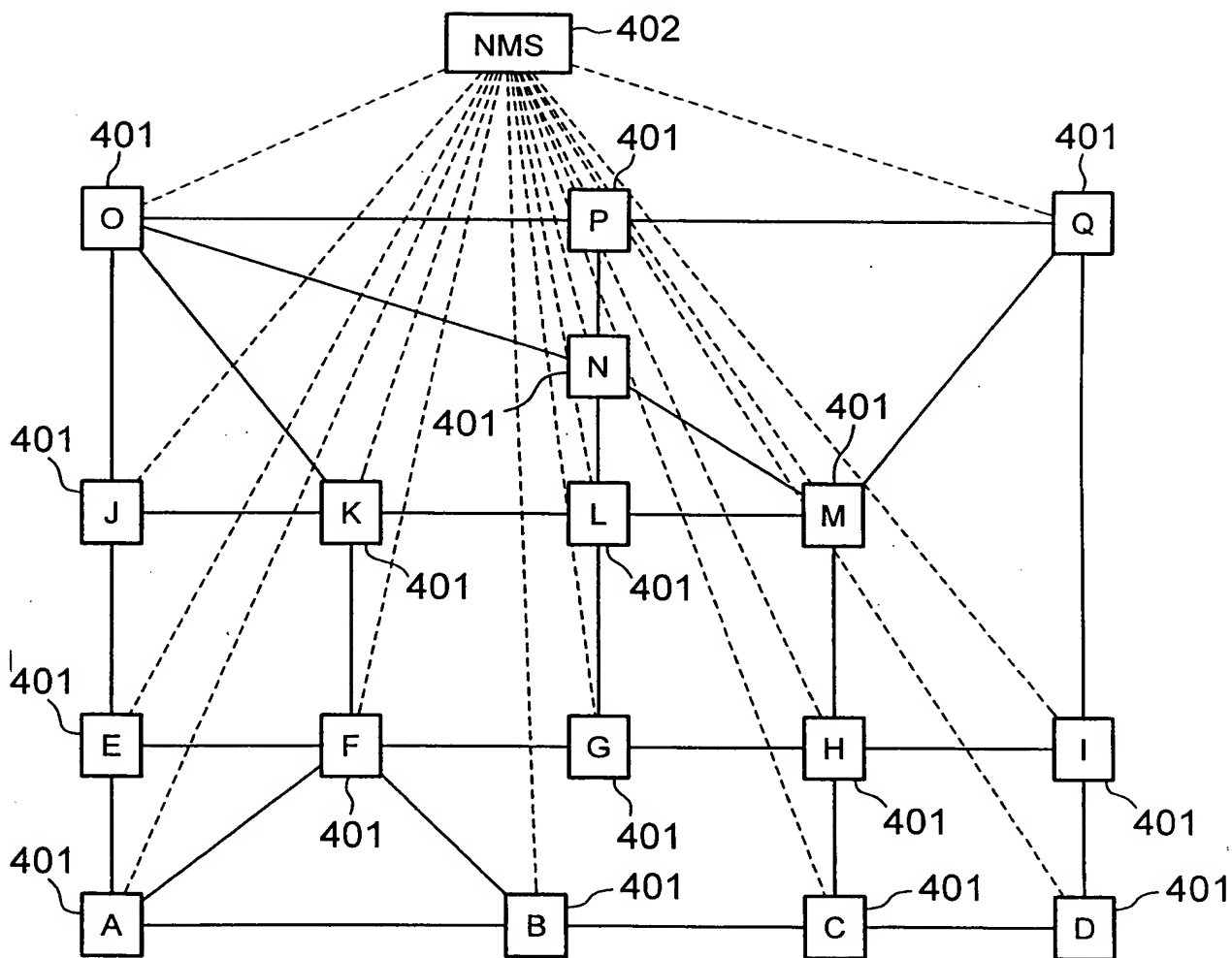




FIG. 2

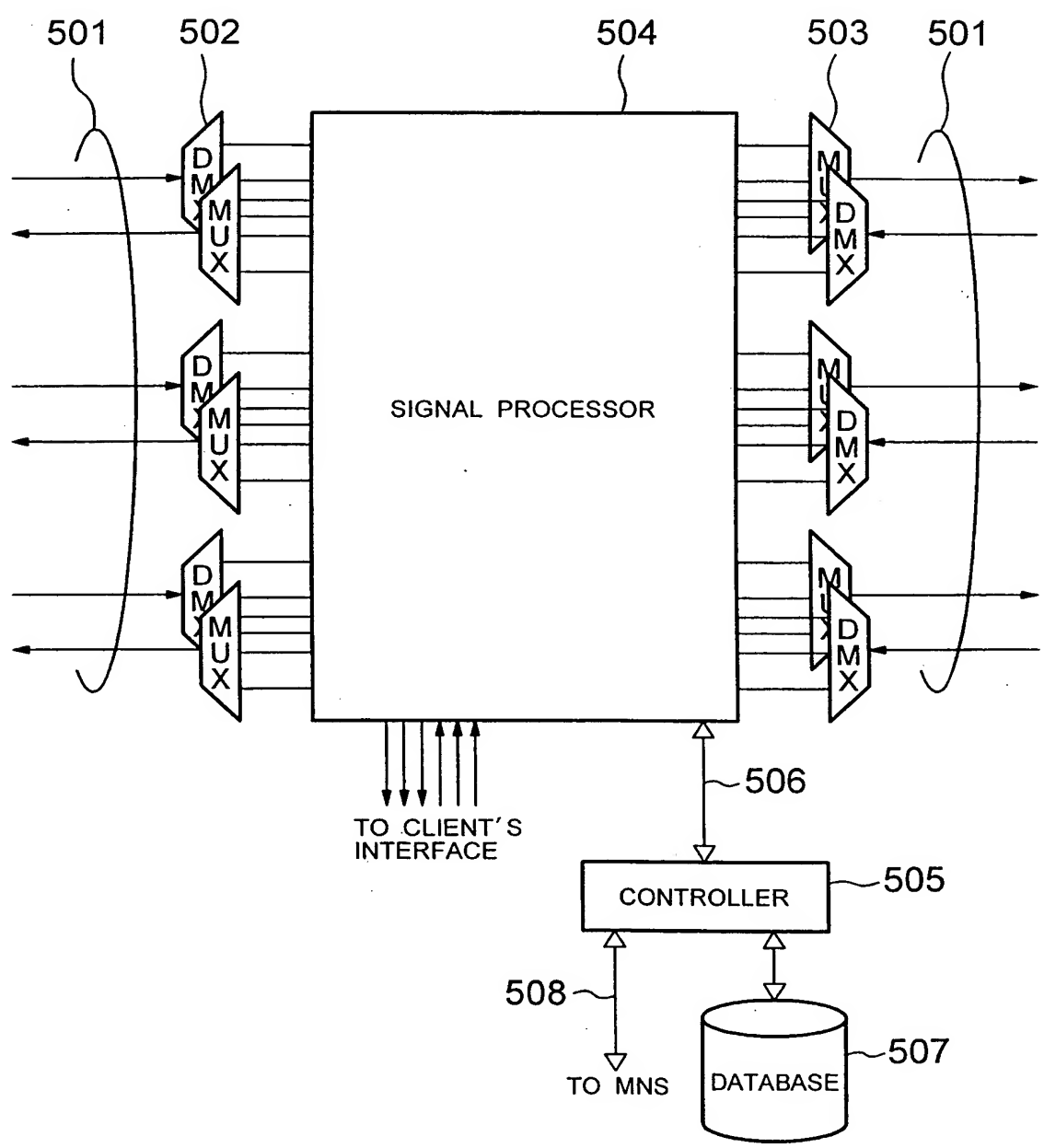




FIG. 3A

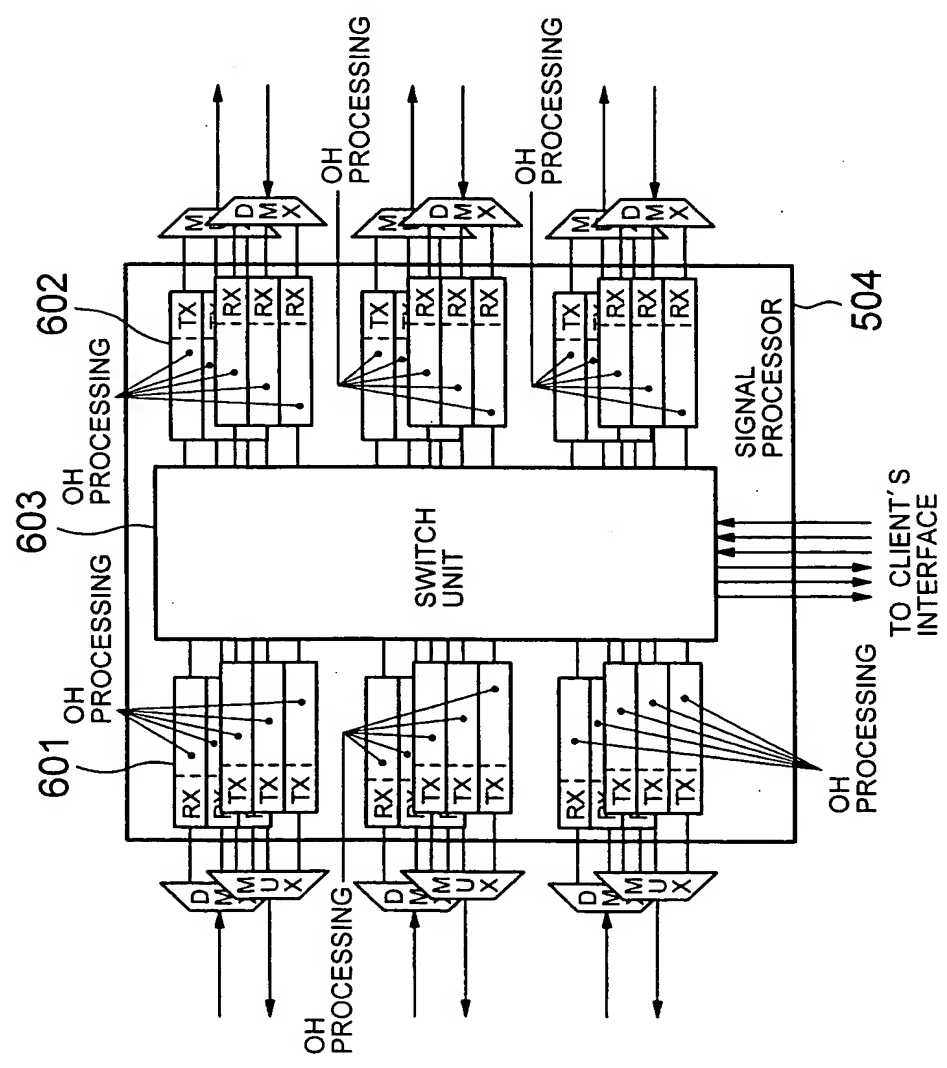


FIG. 3B

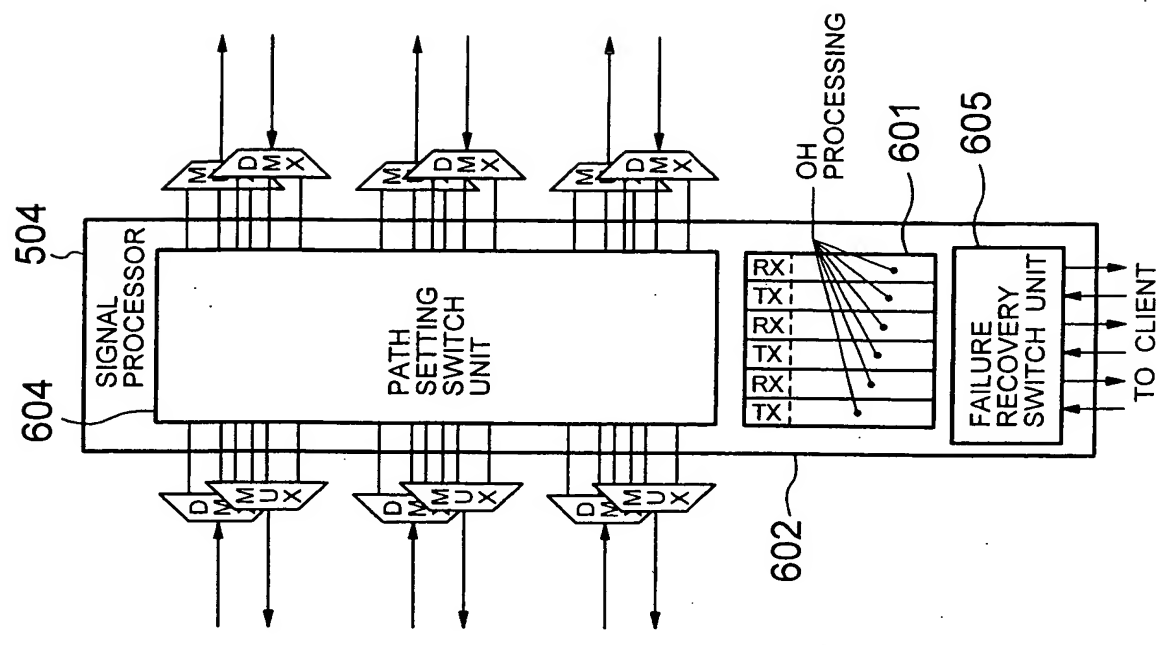
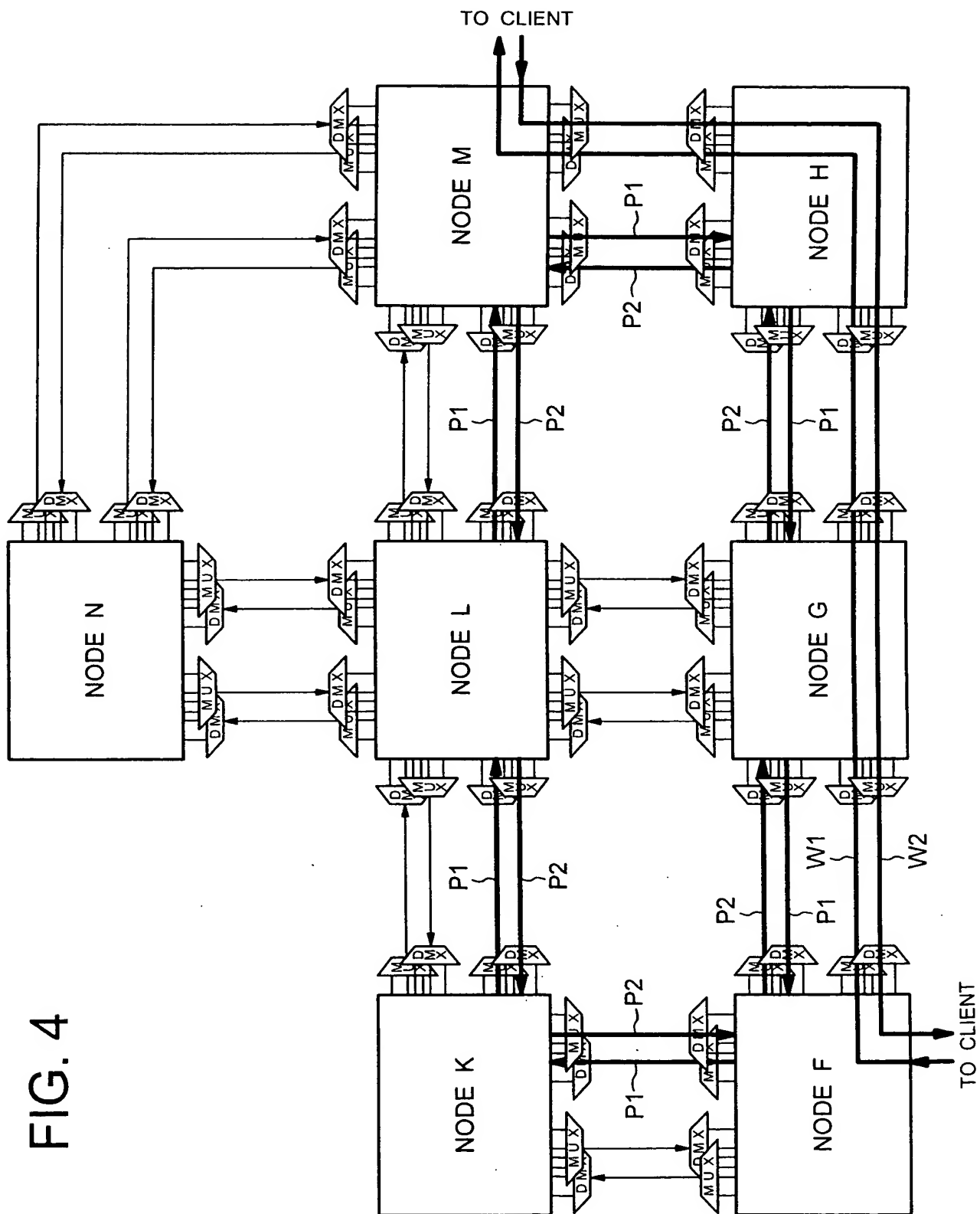
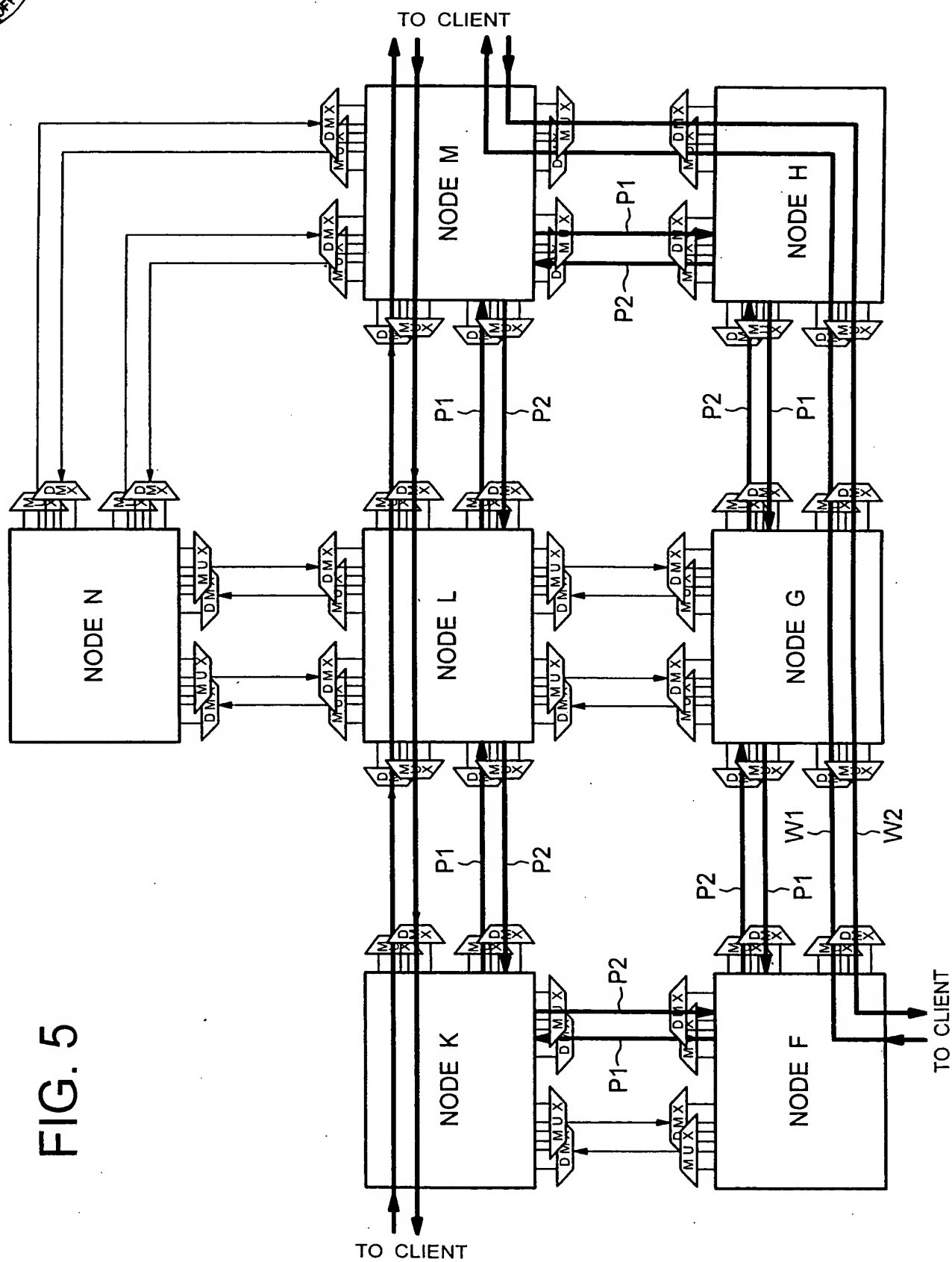
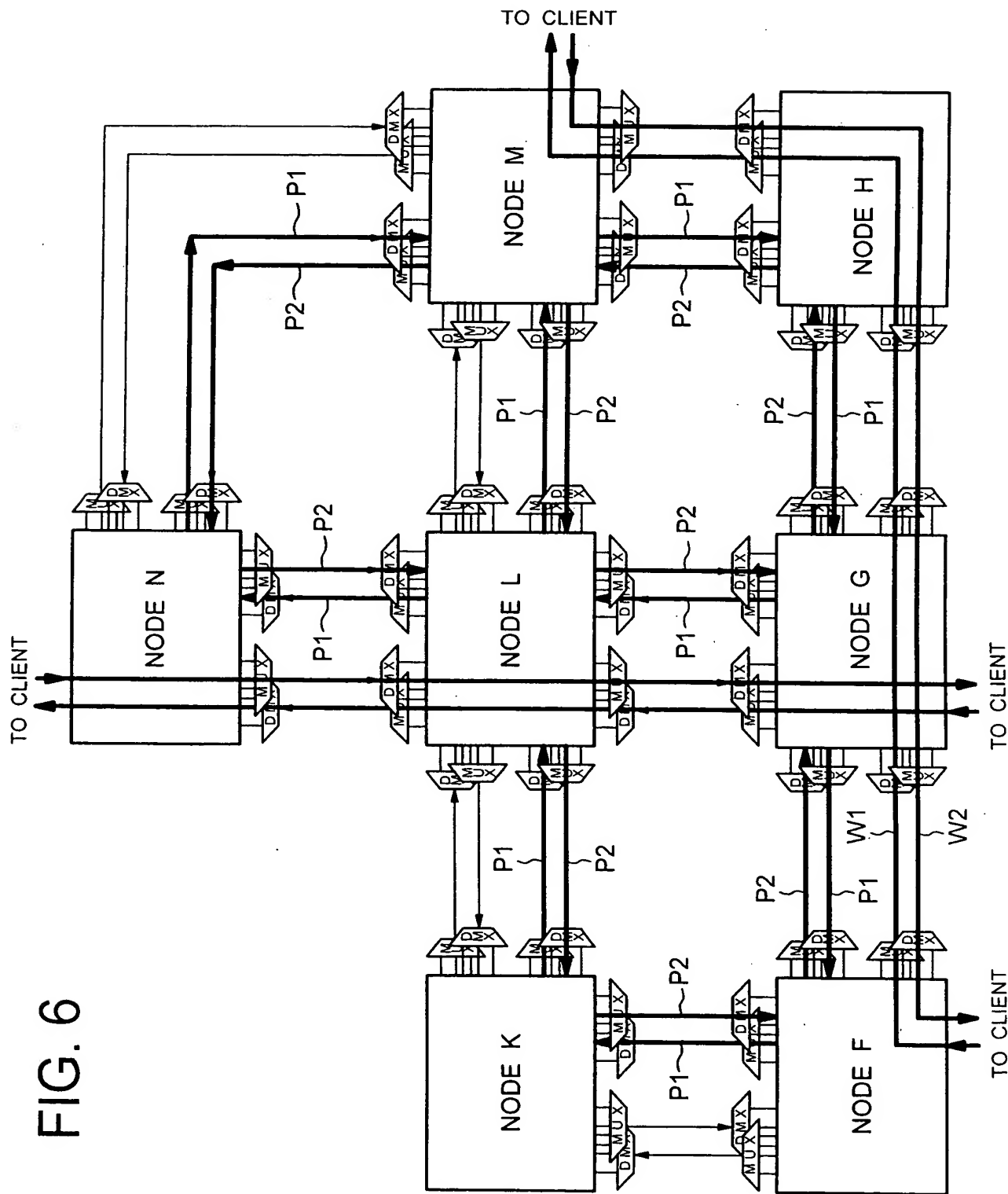
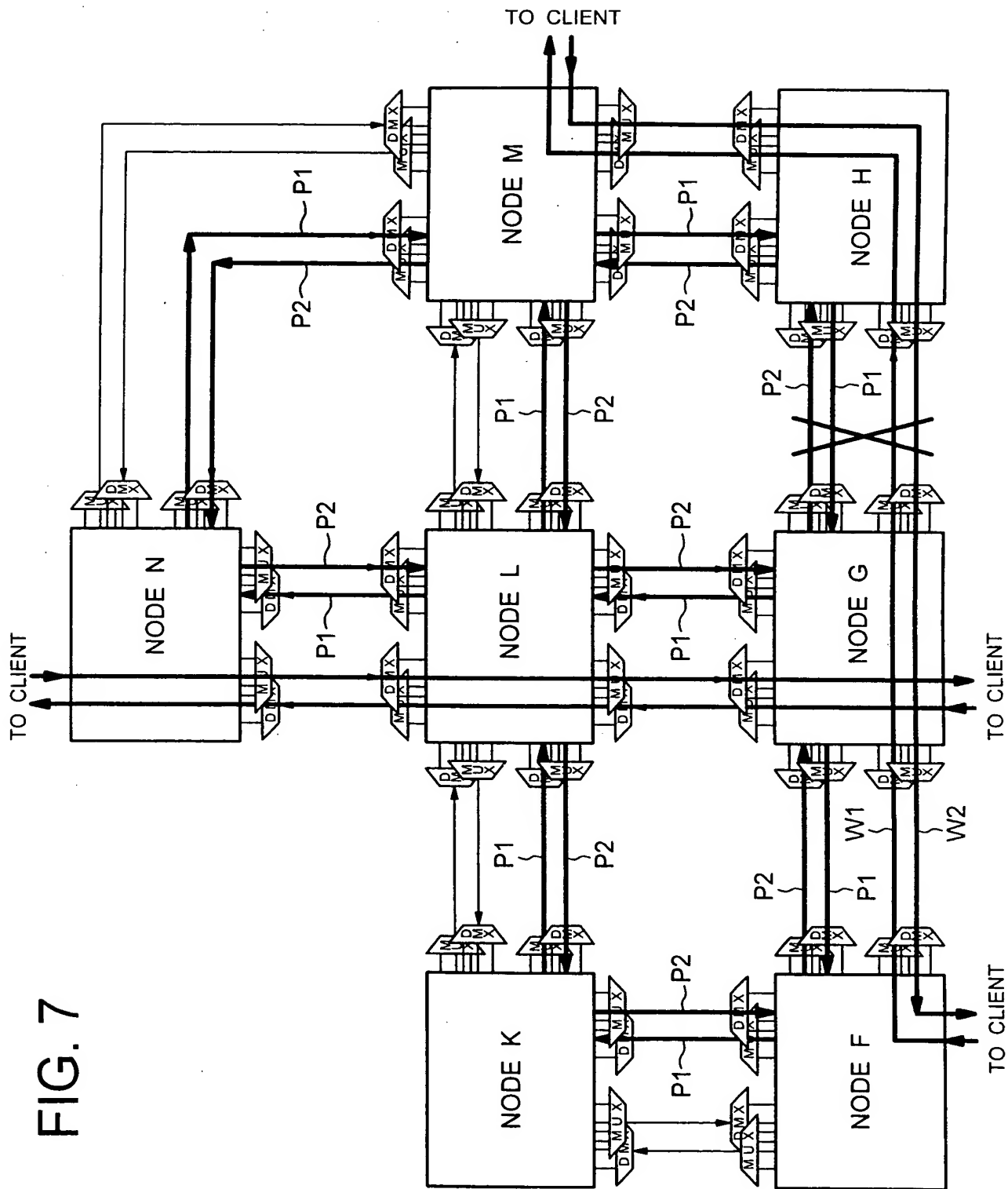


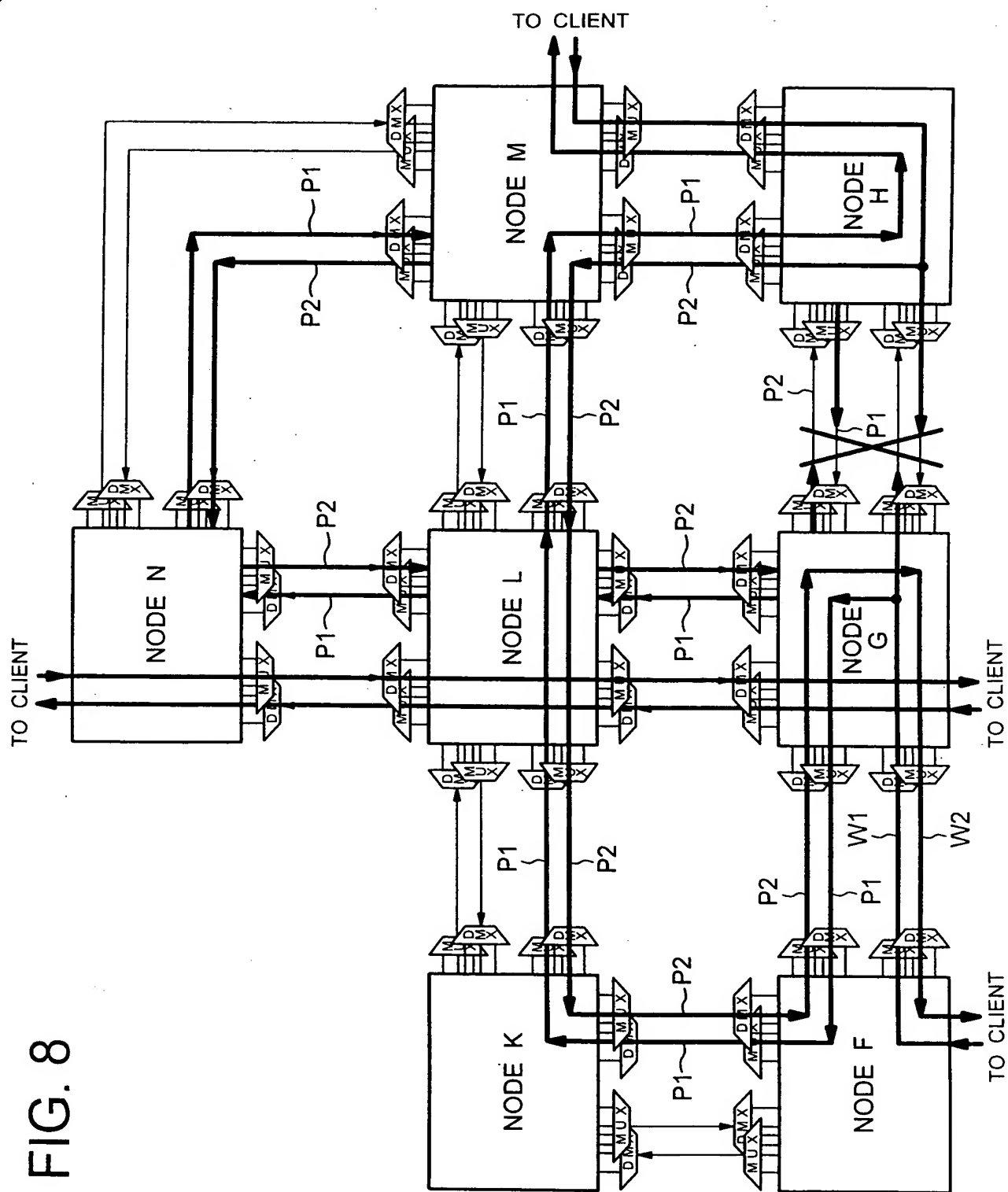
FIG. 4













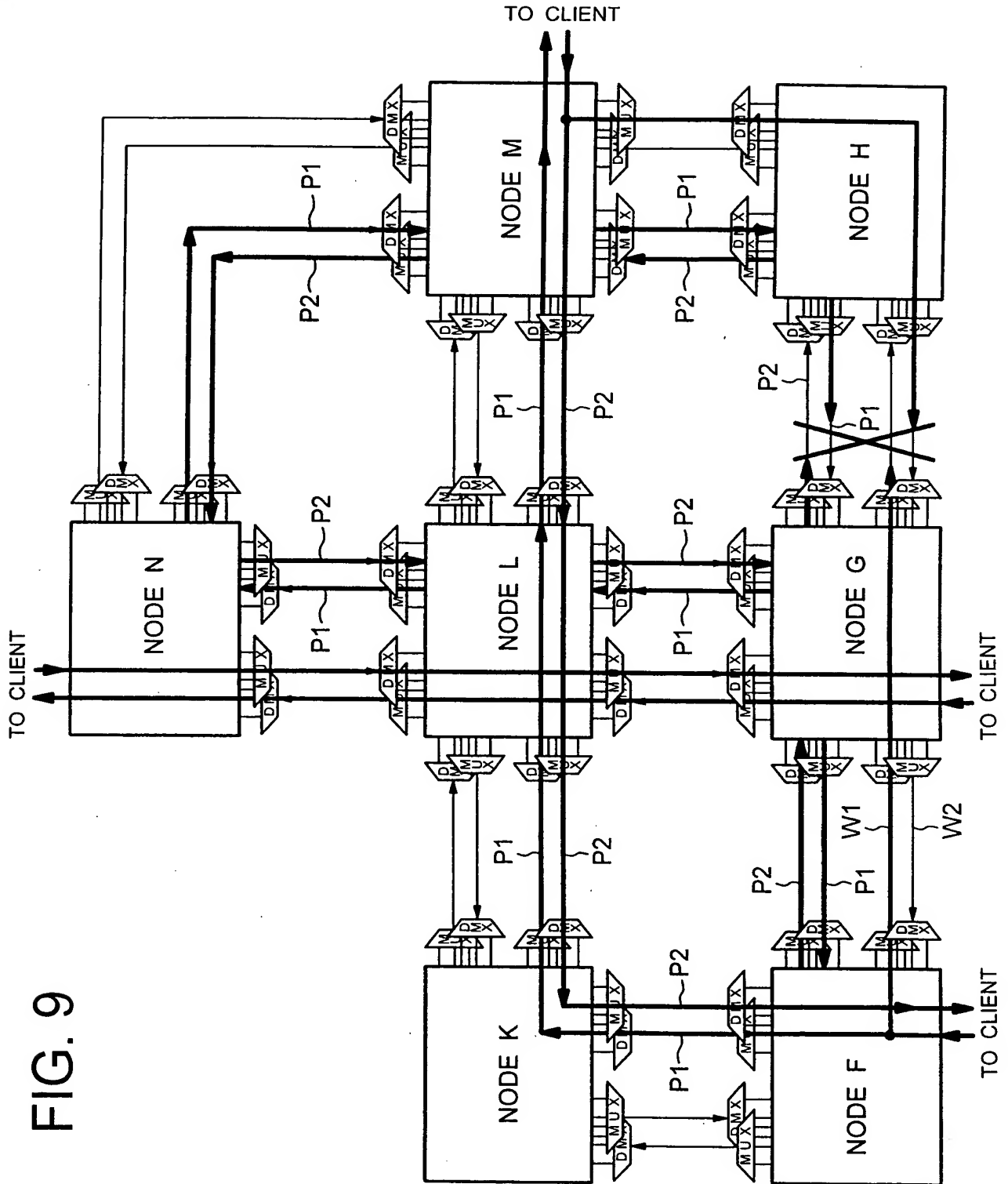
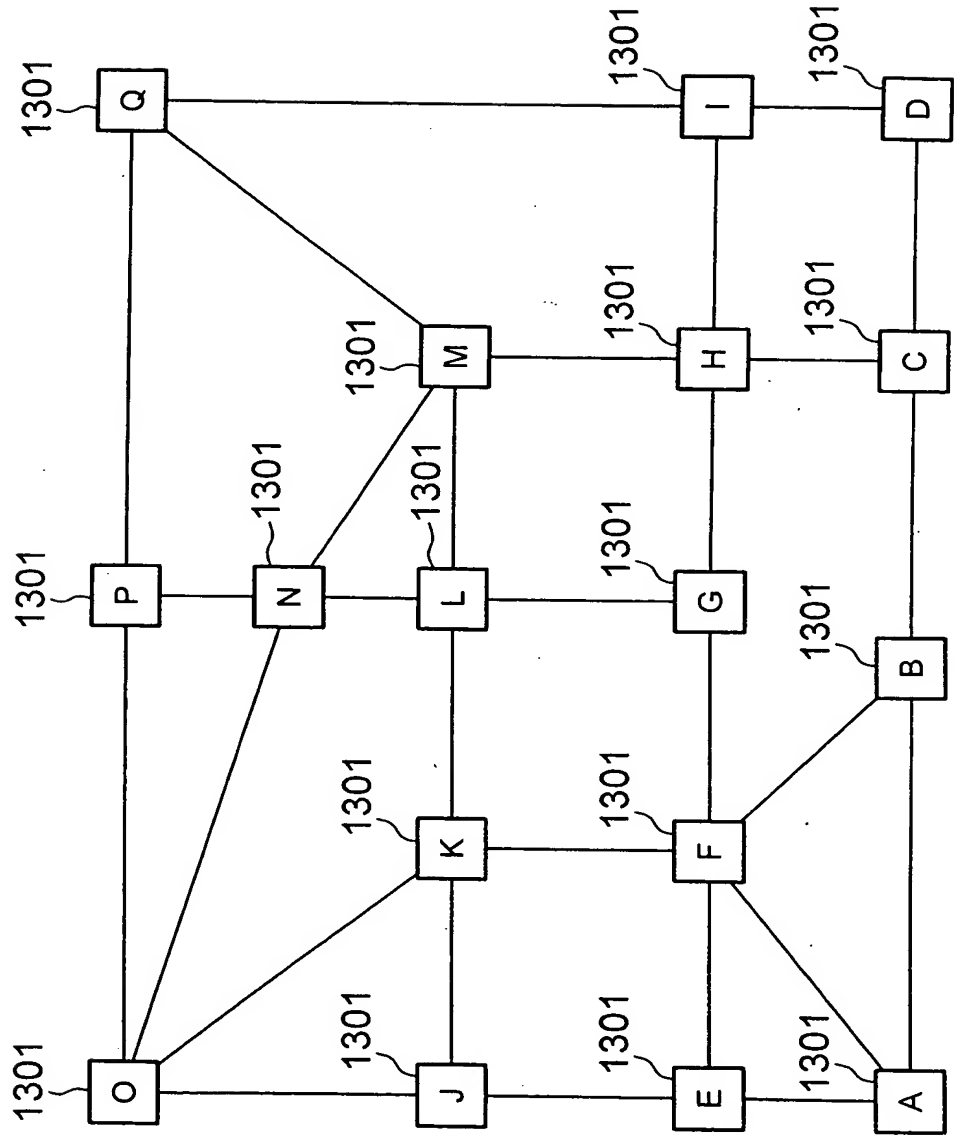




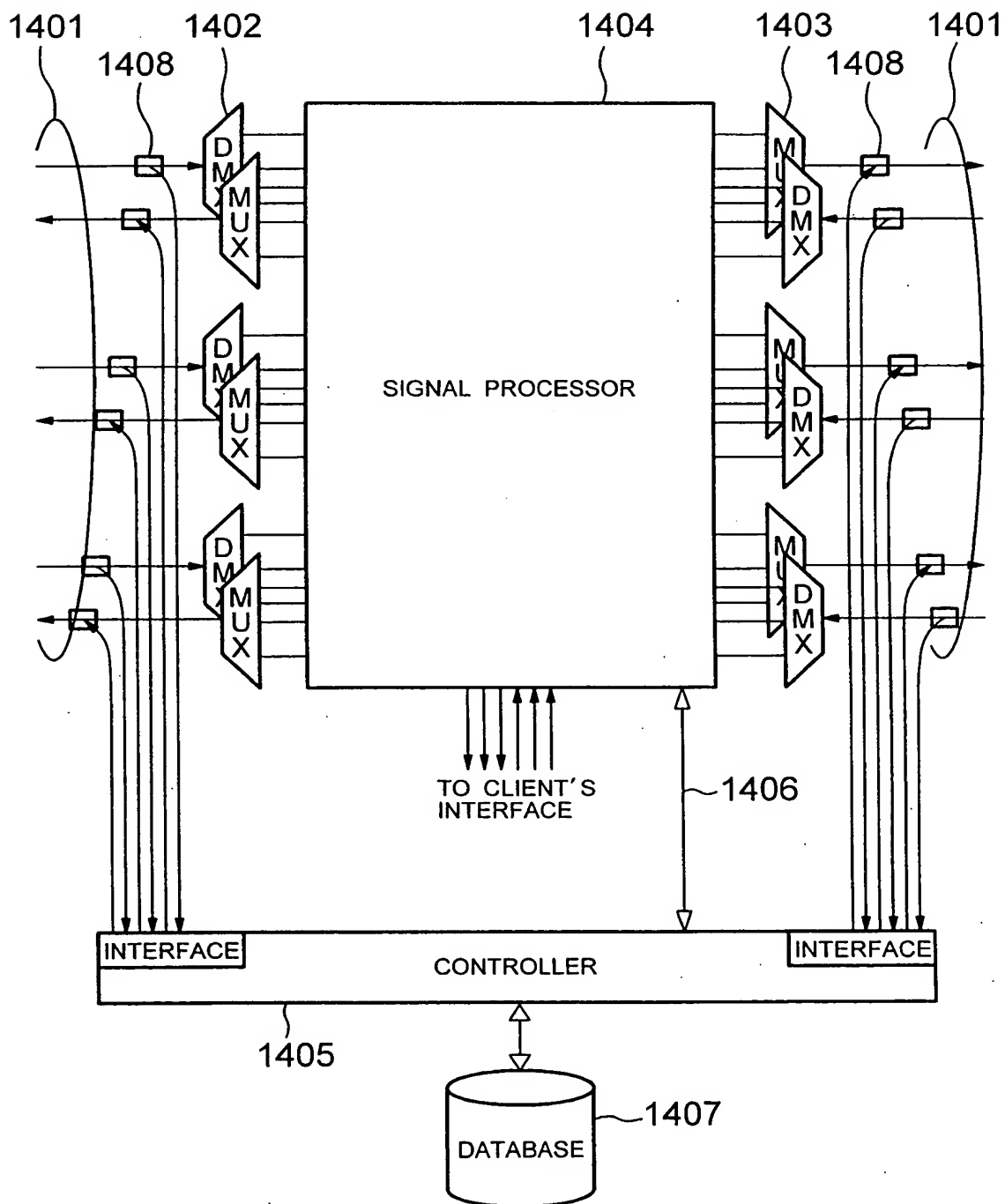
FIG. 10





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FIG. 11





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FIG. 12

RING ID	RING LINK INFORMATION	W1		W2		P1		P2		LOCAL NODE ID
		INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	
1	F		29	26		32	41	38	35	0
	G	8	29	26	11	32	5	2	35	1
	H	8	41	38	11	44	5	2	47	2
	M	20			23	8	17	14	11	3
	L					8	29	26	11	4
	K					20	29	26	23	5



FIG. 13

RING ID	RING LINK INFORMATION	W1		W2		P1		P2		LOCAL NODE ID
		INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	
1	F		29	26		32	41	38	35	0
	G	8	29	26	11	32	5	2	35	1
	H	8	41	38	11	44	5	2	47	2
	M	20			23	8	17	14	11	3
	L					8	29	26	11	4
	K					20	29	26	23	5
2	F					32	41	38	35	0
	G					32	5	2	35	1
	H					44	5	2	47	2
	M		5	2		8	17	14	11	3
	L	32	5	2	35	8	29	26	11	4
	K	32			35	20	29	26	23	5



FIG. 14

RING ID	RING LINK INFORMATION	W1		W2		P1		P2		LOCAL NODE ID
		INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	
1	F		29	26		32	41	38	35	0
	G	8	29	26	11	32	5	2	35	1
	H	8	41	38	11	44	5	2	47	2
	M	20	5	2	23	8	17	14	11	3
	L	32	5	2	35	8	29	26	11	4
	K	32			35	20	29	26	23	5
2	G	44			47	32	41	38	35	6
	H					32	5	2	47	7
	M					44	17	14	47	8
	N		17	14		20	29	26	23	9
	L	44	17	14	47	20	41	38	23	10

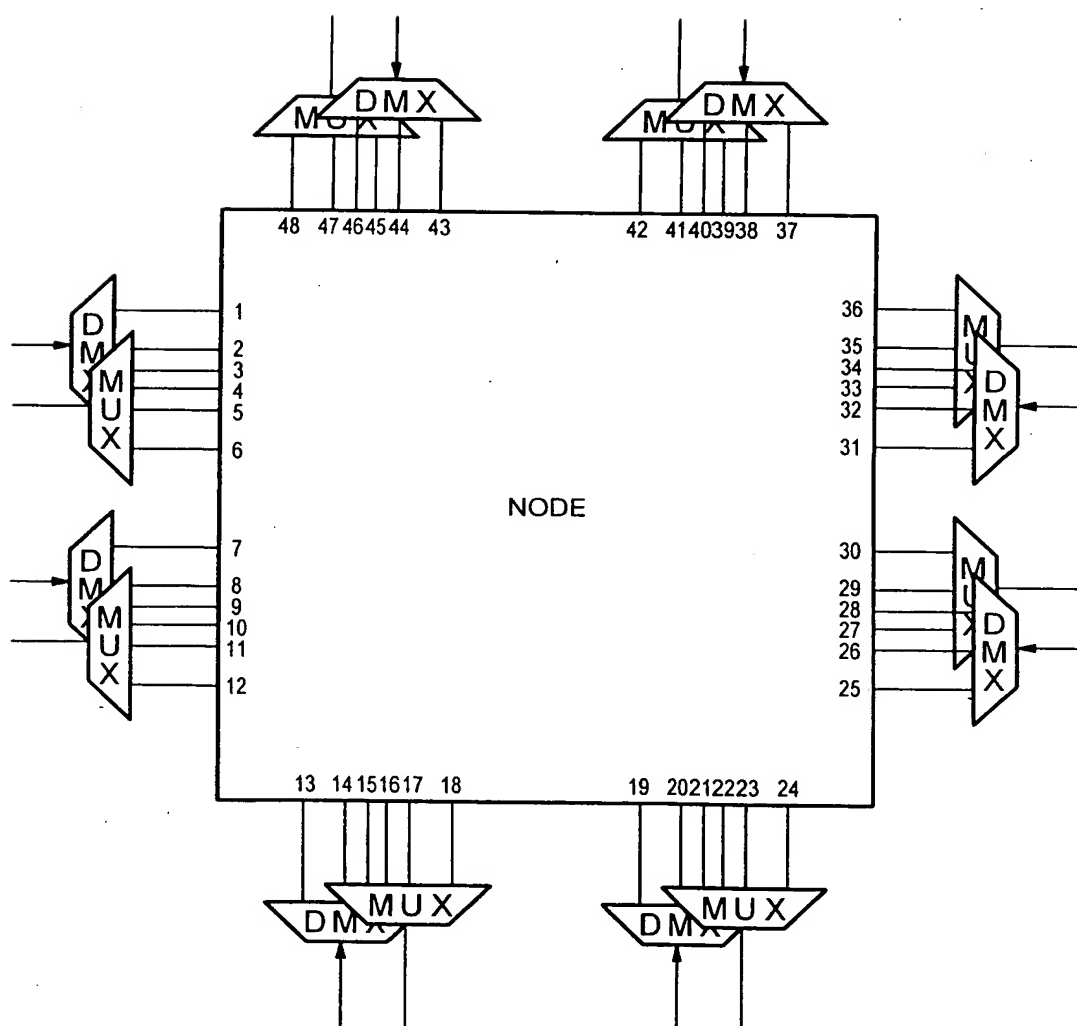


FIG. 15

RING ID	RING LINK INFORMATION	W1		W2		P1		P2		LOCAL NODE ID
		INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	INPUT PORT	OUTPUT PORT	
1	F		29	26		32	41	38	35	0
	G	8	29	26	11	32	5	2	35	1
	H	8	41	38	11	44	5	2	47	2
	M	20	5	2	23	8	17	14	11	3
	L	32	5	2	35	8	29	26	11	4
	K	32			35	20	29	26	23	5
2	N					44	5	2	47	0
	O	32			35	20	29	26	23	1
	P		5	2		8	17	14	11	2



FIG. 16





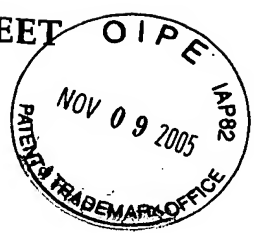


FIG. 17A

PRIOR ART

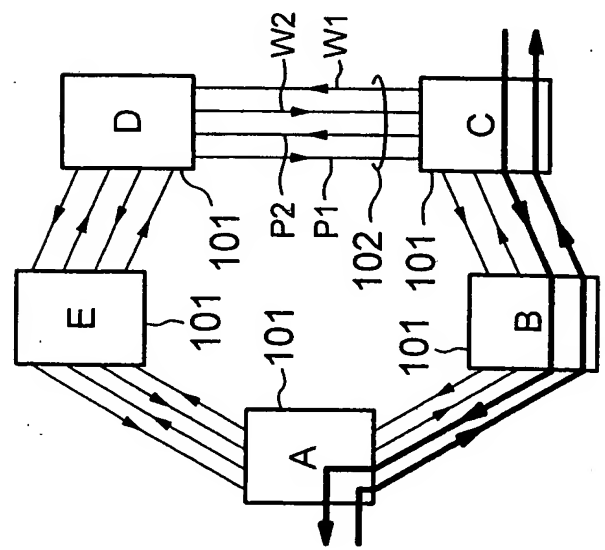


FIG. 17B

PRIOR ART

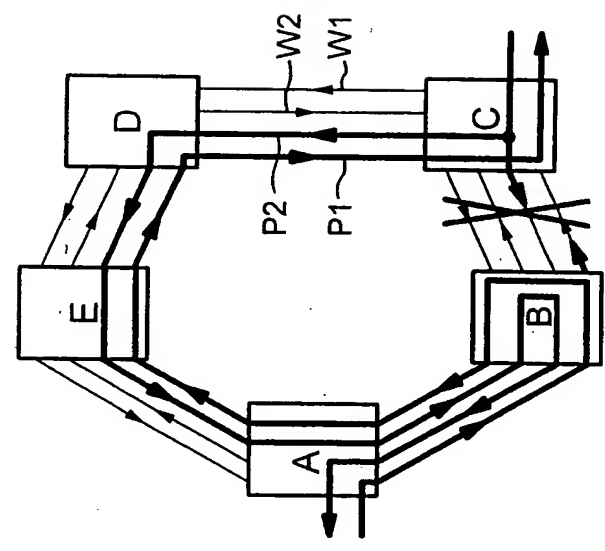


FIG. 17C

PRIOR ART

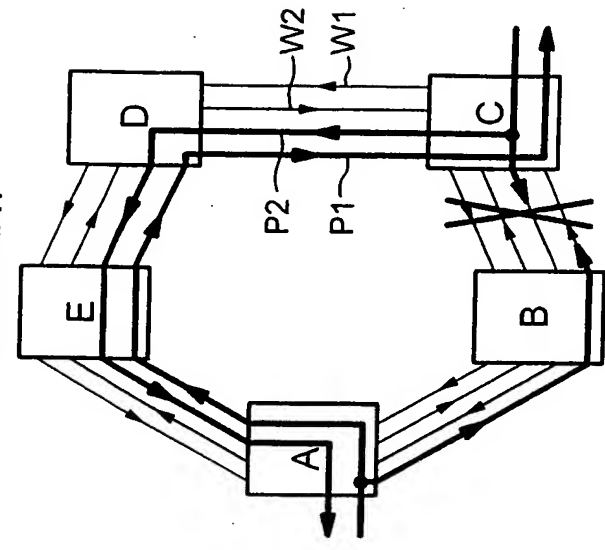




FIG. 18

**PRIOR ART**

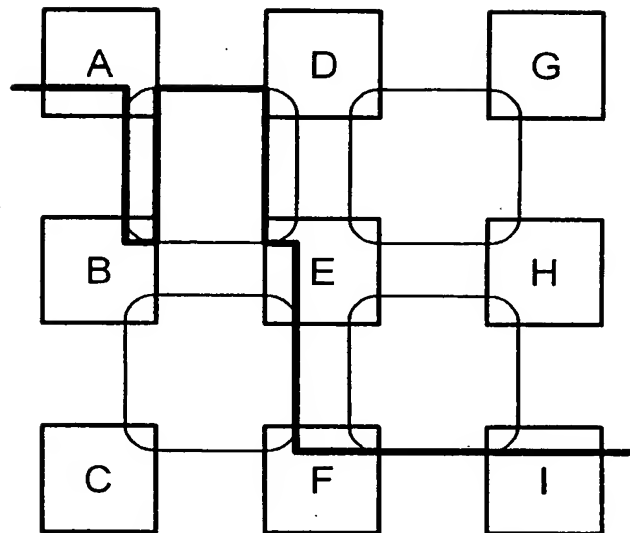




FIG. 19

PRIOR ART

